

ments, and the fourth floor the gymnasium, chapel and student apartments. The interior of the building is cheerful in aspect and so constructed and finished as to subserve the highest sanitary perfection. The rooms occupied by students are handsomely furnished, the floors being covered with rugs, the walls hung with choice pictures, and the furniture fashioned so as to subserve perfect healthfulness and compactness. Taken all-in-all the building is one of the finest educational edifices in the west. It is stately, rather than beautiful, in appearance, and suggests the dignified character which its purpose subverts.

Standing near the main building and Blanche Hall is the third structure of the institution, the school house. This structure contains the art department, recitation rooms and school rooms. The school building is plain in style, ample in dimensions, and admirably adapted to the use for which it is designed. The three buildings occupy the campus of the institution, are at convenient intervals apart, and are all heated by the same steam-heating plant.

Akeley institute is one of Michigan's proudest institutions of learning. Its scope and purpose are such as to subserve the highest needs of society. Its management is liberal and progressive. Its future eminence is assured through the union of the best of human agencies linked with the Divine cause.

Officers of the Institution.

President, Rt. Rev. George D. Gillespie, D.D.; clerk, the Rev. J. N. Rippey; chaplain, the Rev. James E. Wilkinson; treasurer, George Stickney, cashier of the National Bank of Grand Haven. The executive committee consists of Rt. Rev. George D. Gillespie, D.D., the Rev. J. W. Bancroft and the Hon. Dwight Cutler. The following, relative to the important matter of expense, is taken from the catalogue for 1891-2:

Expenses.
Board and tuition in English and Latin or French, and use of library and gymnasium \$250.00
Painting 50.00
Drawing 25.00
Modern languages 25.00
Instrumental music 50.00
Vocal music 50.00
Recitation rooms for practice 50.00
Bookkeeping, stenography and typewriting 50.00
Stitching 5.00
Boarding 20.00
Expenses of graduation 5.00
Instruction on the organ and violin at professor's rates.

A small extra charge is made for meals served in pupils' rooms. A deposit of \$5.00 for breakfast during the year will be required in September. The unexpended balance will be refunded in June.

All payments are to be made semi-annually, in advance, one half upon entrance, the balance January 1st. But no student within thirty days is subject to audit draft. Inasmuch as all arrangements with instructors are necessarily made for the whole year, no pupil will be received for less than a year, or so much of the year as remains at the time of entrance, and no reduction for absence or withdrawal before the end of the year will be made, except in cases of protracted illness, when the loss will be shared equally. Pupils remaining through the Christmas term of three weeks will be charged \$5.00 per week for board. Payments should be made to the treasurer or principal.

Announcement for 1892-3.
Advent term begins September 1st; All Saints day, Blanche Akeley Memorial, November 1st; Christmas recess, December 1st; Easter recess, January 1st; Easter recess, April 1st; work resumed April 1st; school year closes June 22.

Term opens in all cases with chapel services on Wednesday at 10 o'clock. All members of the school are required to be in attendance.

Officers and Teachers.

Rt. Rev. George D. Gillespie, D.D., Rector, Lectures on the Bible.
Rev. J. E. Wilkinson, Ph.D., Chaplain, Greek History, Psychology.
Mrs. J. E. Wilkinson, French, English language and literature.
Miss Isabel Cottrell, Science, French.
Miss Helen V. Conrath, Latin, German.
Miss May H. Butler, Head of Department of Music.
Mr. Henry C. Post, Laboratory.
Mr. James Francis Campbell (Italy), Vocal Music.
Mrs. Arthur C. Torrey, Art.
Commercial Course.
Miss J. E. Cottrell, Housemother.

Courses of study.
The courses of study afforded by the institution are arranged under the following classification: Preparatory class, including the sciences, English, French, German and Latin; academic department, extending over four years and comprising comprehensive training in the sciences, history and languages—Greek, French, Latin, German and English.

The work is arranged to meet the requirements for entrance to the University of Michigan in the course leading to the degrees of B.A., Ph.D., B.S. and B.L.

The music school furnishes a four-year course in vocal and instrumental music under the direction of competent teachers. Particular stress is laid on the direction of Henry C. Post, late of Leipzig Conservatory. Vocal culture is under the direction of Mr. Francis Campbell, late of Milan. The music course comprises a comprehensive study of the authors and technique of instruments and vocal performance, and is designed to finish students for professional positions in this graceful and ethical profession.

The School of Art.

This department is in charge of Mrs. Arthur C. Torrey of Grand Rapids, one of the best known of Michigan artists. Mrs. Torrey has studied both in Chicago and New York under such teachers as F. W. Frier, Speed, C. Y. Turner and others, and her instruction is of the best and most thorough description. The studio, which was built especially for the purpose, is well equipped with casts and anatomical studies and has excellent light. The course in art comprises drawing in pencil, pen and ink, crayon and charcoal; instruction in the principles of light and shade; sketching from nature, with practical application of the rules of perspective; painting in oils and water colors from still life and models; pastels on the lives and work of artists, past and present, with study of the history of architecture, sculpture and painting. The boarding capacity of the school is seventy-five pupils.

Endowments.

Until very recently Akeley institute has been entirely without endowment, but within the past year an earnest advocate of Christian education, Miss Rebecca Richmond of Grand Rapids, has endowed two lectureships in the interests and for the use of the school. The Arthur Hall lectureship is for lectures on women in the home and country, and is to be practical in nature. The Jeanette Richmond Ferry lectureship is on subjects limited to Christian evidences and literature, and missionary work. Too much praise cannot be bestowed on the generous donor of these practical benefits to the cause of education, and it is earnestly hoped that others may be stimulated to follow her example. The trustees also solicit endowments of scholarships for the daughters of the clergy, and funds to increase the library, physical and astronomical apparatus.

The active management of Akeley Institute at present devolves upon Dr. James E. Wilkinson as chaplain, ably assisted by his wife, as principal. Both are educators of rare talent and ability, being fitted for their high callings by extensive training in the foremost institutions of the world and by natural gifts of peculiar fitness. They enjoy the confidence and esteem of the church, the community and the school which surrounds them, and are especially beloved by their pupils for their Christian graces and scholarly attainments.

most position in the leather trade, by reason of the high character of the personnel of the firm and of the superior quality of its product. The plant is situated upon the banks of Grand river, it having a dockage front of 200 feet. Five large structures are already utilized to their fullest capacity and others are contemplated in the immediate future. The plant has been increased in capacity 33 1/3 per cent. during the present year. The buildings consist of hide houses, engine rooms, tan yards, lime houses, warehouses and currying shops. They occupy a tract of five acres in extent. The buildings are reached by the tracks of the Chicago & West Michigan railway's system and by the survey of the Valley City railway. The capacity of the works is 550 hides per week; employment is given to seventy men and the monthly payroll is \$2,500. The value of the annual product is \$175,000. Two thousand cords of tan bark are used annually. The firm

Challenge Corn Planter Company.

In magnitude of plant and volume of business transacted, the leading industry of Grand Haven, as, indeed, the leading industry of its kind in the state, is that of the Challenge Corn Planter company. From a small beginning many years ago, the firm has advanced to its magnificent proportions of today, and has advanced to the proud position of one of the foremost institutions in the west. The elements which have contributed to this superiority are inherent merit of product and integrity and assiduity in business practice. The plant of the firm consists of a group of mammoth factories and storehouse, train sheds, kilns and numerous small buildings. It occupies twenty acres of land, is traversed by two lines of railway and is contiguous to Lake Michigan harbor, having dockage front along its premises. The business of the firm consists of the manufacture of corn planters, check rows, corn drills and refrigerators. Each of these lines of manufacture is carried on upon a mammoth scale, very largely by means of machinery invented and patented by the firm. In each of them the product is recognized as the highest standard of excellence known to the trade. The goods turned out reach every market in America where their use is demanded. In the iceberg refrigerator the firm has produced an article, indispensable to every household, in which the highest scientific construction is embodied in graceful and elegant form, ornate with rich carvings and embellished with the choicest decorations known to the arts of wood and metal trimming. So high a beauty and perfection of construction has been attained that the refrigerator has advanced to fill the function and take the place of the side-board in the most elegantly appointed dining halls.

The agricultural implements of the firm are recognized as the leading articles of the kind made in the world. Each fills an absolute want in the economy of agriculture, such is demanded by the leading farmers of the world and each is pre-eminent of its kind. The fame of this firm and the celebrity of its product are alike known wherever agriculture is followed as a business upon the globe. The firm is a corporation, with a capital stock of \$200,000. Its officers are: President, W. C. Sheldon; superintendent, Levi Scofield; secretary and treasurer, George Stickney. These, with Dwight Cutler, Jr., and William Savage comprise the board of directors.

Henry Bloeker & Co.

Twenty years ago Henry Bloeker founded the splendid institution which has grown to its present proportions. By dint of indomitable courage, integrity and alacrity its founder has steadily advanced in worldly possessions.



HENRY BLOEKER & CO'S PLANT.

sions, and has added, from time to time, innumerable extensions and improvements. The plant is today one of the most complete in Michigan, and enjoys an enviable reputation wherever marine engines are required. Henry Bloeker is a mechanic of careful training and long experience. He is possessed of advanced ideas and embodies the latest improvements known to his industry in the work which he turns out.

The plant of the firm is one of the complete institutions of Grand Haven. The main building is 190 by 135 feet in dimension. Connected with it are the moulding room, pattern shop, engine room and offices.

Each department is equipped with the latest improved machinery and provided with the requisite appliances for handling the most ponderous castings. The business of the firm consists of the manufacture and repair of marine and stationary engines. A special drive has been made upon small and medium sized yacht engines, and the firm enjoys a wide range of popularity for these machines. Hundreds of them are shipped to the south, west and northwest.

The plant is close to the harbor docks and has the advantage of railway transportation at its very doors. The payroll of the firm is \$1,500 per month. Among many important engines which have been turned out of the works are those in use by the Williams Transportation company, by Captain Brittain, Saugatuck, by the steamer S. K. Martin, Columbia, Thomas Bryant and Saugatuck. Seventy-three, in all, have been built. The machine shop is under the charge of Edward Stokes, as foreman. Three sons of Mr. Bloeker occupy important positions in the works, and constitute the "company" of the firm. They are Hugo, foreman



GRAND HAVEN LEATHER CO'S PLANT.

of the foundry, Powell, of the machine shop, and Fred, bookkeeper and office manager. Henry Bloeker, head of the firm, is general manager.

Grand Haven Leather Co.
The plant of the grand leather is one of the largest of the kind in the west. It occupies a terrace

of perfection among ship builders and owners. The Chicago plant is designed to supply the rapidly growing demand for small marine and stationary engine boilers in the west, and also to supply piping for steam fitting, smoke, dust and ventilator shafts. The plants had



PLANT OF THE CHALLENGE CORN PLANTER COMPANY.

constitutes a corporation. Its capital stock is \$100,000. Its official list is as follows: President, A. J. Nyland; vice president, Dirk Vyn; secretary, John Vaupeil; treasurer, George Stickney. It is engaged in the manufacture of harness, skirting, line, calf, collar and saddlery leather.

The management of the institution



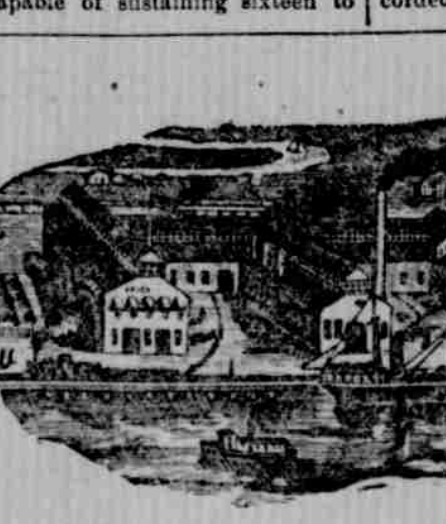
An especial advantage enjoyed by the firm is the exceptionally low freight rates to all points. Nearly all the great iron and steel working plants of the north are along the routes of lake navigation, and can all be reached direct, by steamer, from the furnace.

The management of the business devolves upon J. E. Ford, one of the best known and most capable superintendents of iron making in the west.

The Ship Building Industry.
This important industry, indissolubly associated with the growth of harbor of the magnitude of Grand Haven, realized its inception and early direction from the early activities of the Hon. Thomas W. Kirby, present mayor of the city. After many years' service as captain upon the lakes, Captain Kirby, left the pen of navigation behind him and began the building of ships. Today no name is more justly celebrated in the annals of lake navigation than his. More than sixty staunch crafts today, the creatures of his creation, are breasting the restless waters of our own inland seas. Among them are many of the finest boats known to our inland marine. All of them are noteworthy models of the worthy master's skill. From the ship yard of Captain Kirby, and from that of the Grand Haven Ship Building company, another institution of about the same proportions, have been turned out many of the finest boats upon the lakes.

Captain Kirby began operations early in the fifties. He built the first dry dock along the west shore of Lake Michigan.

Of late years Captain Kirby has directed much of his surplus capital to the development of the fishing industry upon a large scale. He has erected large freezing and packing houses at his docks and maintains four steam tugs of great power and an army of employees in that business. He has lately added two models of marine architecture, the Elk and the Deer, to his fishing fleet. These boats are ninety and eighty feet over all, respectively, and capable of sustaining sixteen to



PLANT OF JOHNSON BROS., FERRYSBURG.

twenty miles per hour. They are the staunchest crafts on the east shore. As mayor of Grand Haven Captain Kirby administers the executive office of the city of a liberal policy. The new city water works pumping plant has just been completed by his direction.

The Fishing Industry.
Grand Haven fisheries are the most important upon Lake Michigan, and constitute one of the most important industries. Tens of thousands of dollars are invested in buildings, boats, nets and tackle, while scores of hardy fishermen are employed aloft, and scores of other employees, both male and female, are employed ashore. A fleet of twenty-five to fifty craft of all kinds is employed in the industry. Many of these are of small dimensions and serve the uses of small dealers. Others are of the dimensions of pretentious steamships and are of the most powerful and known to the inland waters. The catch at the fishing grounds visited from this harbor is very large and is the most valuable of any lake fleet. The mid-lake fishing for trout is upon the shoals of forty to sixty fathoms on gravel bottom. Near shore, in twenty to thirty fathoms, are found herring and other varieties in profusion. The daily catch of the entire fleet varies with the seasons and other controlling circumstances.

An average catch is about six tons of fish.

Grand Haven as a Summer Resort.

For the weary or exhausted business or professional man who, with his family, usually spends a portion of the summer months in some attractive resort where mental and bodily energies may be recuperated under the beneficent influences of congenial and healthful surroundings, there are many reasons why Grand Haven and its vicinity should claim attention.

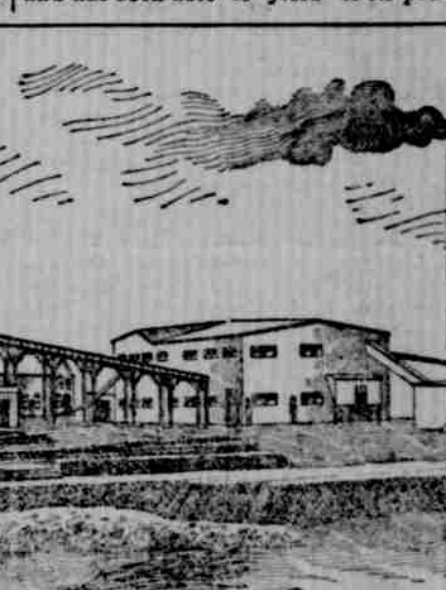
This place has not only been termed "the Saratoga of the west," although the comparison with the far famed resort of the east is in some respects unfavorable to Saratoga. Here is to be found every condition contributory to the building up of shattered nerves, tired brains or enervated systems. Respecting the most important of these conditions, climate, a small volume might be written upon the salubrity of atmosphere, evenness of temperature

of lumber activity at the mouth of Grand river was the old time First National Bank of Grand Haven, an institution which some years since outlived its charter. The present institution, successor to the old, was established upon the expiration of its older predecessor. The new institution is one of the most solid in the state, and has among its officers and directors men who enjoy national reputation in politics and finance. This institution is offered as follows: President, the Hon. Dwight Cutler; vice president, N. B. Howlett; cashier, George Stickney. The board of directors is composed of Dwight Cutler, William Savidge, Dwight Cutler, Jr., Charles E. Wyman, G. W. A. Smith, George A. Farr, N. E. Howlett, Sherman H. Boyce and George Stickney. The capital stock is \$100,000. The bank began doing business June 1, 1891. From the foundation of the older institution to the present time the banks have never missed their semi-annual 5 per cent



PLANT OF THE CHALLENGE CORN PLANTER COMPANY.

and generally agreeable weather which here prevails, not only during the summer months, but throughout the year. A law of nature provides that large bodies of water, such as the great lakes, store up heat in summer and distribute it in winter. This being a fact, it can readily be understood that with the prevailing winds coming mainly from a westerly direction, Lake Michigan serves as a great natural bar-



PLANT OF JOHNSON BROS., FERRYSBURG.

rior between the extremes of heat and cold on the west coast of the state. There has been maintained here by the United States government—department of agriculture—for a number of years a weather bureau, and the records, faithfully preserved, can be quoted in support of the claims that have been made. Going over the figures for the past twenty years, it is found that the highest temperature recorded in Grand Haven during that

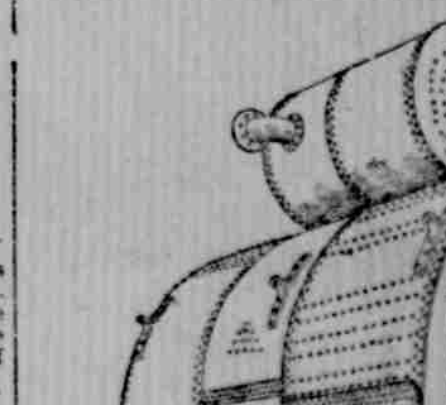
Silas Kilbourne & Co's Plant.

dividend. In taxes they have paid \$81,000, while the government has \$30,000 more has been paid. The stockholders have received \$385,000, as the result of their investments. Cashier George Stickney has been with the institution from the first, and is one of the best known financiers in Michigan. Through his careful direction the bank has grown in reputation and popularity and has been able to yield to its pro-

STATEMENT JUNE 30, 1902.

Loans and discounts	\$29,701.79
U. S. bonds	2,000.00
Premiums	1,500.00
U. S. treasury	3,125.00
Real estate	3,250.00
Due from banks	61,290.72
Cash	22,750.78
	\$114,158.30
Capital stock	\$100,000.00
Surplus and profits	6,000.00
Dividend No. 2	4,000.00
Stockholders' equity	110,000.00
Deposits	27,125.91
Bills rediscounted	6,000.00
	\$143,125.91

Boiler, Steamer Ionia, Johnson Bros.



BOILER, STEAMER IONIA, JOHNSON BROS.

Silas Kilbourne & Co.
One of the foremost industries of western Michigan, and one of the largest institutions of the kind in the United States is that of Silas Kilbourne & Co. The product of the firm consists of fish kits and pails, syrup pails, and pickles and other kegs. The

plant consists of a large group of buildings and sheds, some of which are of the proportions of great factory structures. The whole occupies a tract of ten acres, which is traversed by the C. & W. M. and P. G. H. & M. railway systems, and has a dockage front upon the harbor for boats and shipping. The main building is 100 by 50 feet, two stories, with a wing 70 by 30 feet in dimensions. Other buildings are the paint shops, cooper shops, ware-rooms and sheds. The engine room is fireproof. The main buildings are covered with corrugated iron, and connected by overhead ways.

The raw material used by this institution is derived principally from the immediate vicinity of the plant. Timber for the fish and syrup packages is required to be of No. 1 quality. A market for the product is found in every fishing center from the Pacific to the Atlantic and from the great lakes to the Gulf.

The firm manufactures several specialties, upon which they enjoy an enviable reputation and in the production of which they enjoy special privileges. The accompanying cut of a fish pail constitutes one of this class. Of this one article alone the firm markets 300,000 annually. Another specialty is a herring keg, Holland pattern. The firm was first in America to bring out this package. The hoops for the first lot made were imported from Amsterdam. From the first this package has met with great favor and a rapidly increasing trade has been realized. Fully 30,000 will be sold this year.

An iron-hooped pickle keg is another specialty, and one upon which a large trade is enjoyed. A specialty which has just been added to the product of the plant is that of the Golden washing machine. Many of its points of superiority are plainly to be seen; others are to be fully understood and appreciated upon its use. The machine supplies a long felt want in a saten-



trial article, which has the combined advantages of compactness of form and simplicity of manipulation. The firm of Silas Kilbourne & Co. is composed of Anson D. Fessenden of Townsend, Mass., and Silas Kilbourne of Grand Haven. The volume of its annual business is \$100,000. The local management of the firm devolves entirely upon Mr. Kilbourne, who has an intimate knowledge of the fishing and cooperage trades, long experience in manufacturing enterprises and is a thor-

oughly alert and progressive business man.

The American Mirror and Glass Beveling Company.

In the above named institution Grand Haven has an industry of unusual magnitude and importance. It is important in that it has demonstrated that in the vast stretches of beach and sloping bank which border Lake Michigan, nature has bounteously supplied the manufacturing arts with an independent article of superior quality. For the purpose of glass grinding, beveling, polishing, mirroring and other designing, the sand at Grand Haven is found to be the finest in America. The American Mirror & Glass Beveling company is the name of two separate corporations, operating two entirely separate plants. The personnel of the firms is identical, and the capacity and capital stock of each about the same. The Grand Haven plant is situated upon the banks of

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